



ITW#

TITLE OF THE INVENTION

2. Bra with Reinforced Cups

3. APPLICANT

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5. BACKGROUND OF THE INVENTION

6. 1. Field of the Invention:

7. The invention broadly relates to bras.

8. 2. Prior Art:

9. A conventional bra shown in Fig. 1 includes a horizontal adjustable back strap 10 attach

10. -ed to the bottom edges of a pair of cups 11 and 12, and a pair of vertical adjustable
11. shoulder straps 13 and 14 attached to the tops of cups 11 and 12. Cups 11 and 12 are
12. made of a relatively thin material that are prone to sagging under the weight of large
13. breasts. Therefore, such bras do not provide the necessary support. [Although
14. shoulder straps 13 and 14 can be tighten to pull cups 11 and 12 upward the breasts
are flattened out of shape in the process.] Shoulder straps and slide buckles along with
breasts rings the shoulder straps will pull evenly on the breast rings.

15. BRIEF SUMMARY OF THE INVENTION

16. The present bra includes a horizontal back strap and a pair of cups. Vertical shoulder
17. Straps are connected between the tops of cups and back strap. Non-stretchable
18. reinforcing rings are attached to the fronts of cups concentric with nipple areas there-
19. on. [The rings have open centers for comfort] and the open centers are filled with
fabric of the cup portion; non-stretchable suspension strips are connected between
respective rings and shoulder straps.

1 The straps are sized to suspend rings at predetermined positions relative to the top
2 ends of the cups to prevent the forward portions of the cups from sagging under the
3 weight of large breasts. The rings maintain the shapes of the cups to prevent them
4 flattening the breasts when the shoulder straps are tightened. A second embodiment
5 includes shoulder straps which are movable upward and downward through slide
6 buckles attached to the tops of the cups for adjusting the lifting of the cup, the slide

buckles are stitch to top of cup. The shoulder straps are the only moving part that moves through the slide buckles to the breast rings.

7 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

8 Fig.1 is a front perspective view of a prior art bra.

9 Fig.2 is a front perspective view of the present bra with reinforced cups.

10 Fig.3 is a front perspective view of a second embodiment of the present bra.

11 Fig.4 is a front perspective view of the bra of Fig. 3 with the shoulder straps
12 tightened.

13 DRAWING REFERENCE NUMERALS

14	10. Back Strap	11. Cup
15	12. Cup	13. Shoulder Strap
16	14. Shoulder Strap	20. Back Strap
17	21. Cup	22. Cup
18	23. Shoulder Strap	24. Shoulder Strap
19	25. Ring	26. Ring
20	27. Nipple Area	28. Nipple Area
21	29. Strip	30.Strip
22	31. Stitching	40. Back Strap
23	41. Cup	42. Cup
01	43. Slide Buckle	44. Slide Buckle
02	45. Shoulder Strap	46. Shoulder Strap
03	47. Ring	48. Ring
04	49. Nipple Area	50. Nipple Area
05	51. Stitching	

06 DETAILED DESCRIPTION OF THE INVENTION

7 Fig.2:

8 In accordance with a first embodiment of the invention shown in the front perspective
9 view of Fig.2, the present bra includes a horizontal back strap 20 for positioning around
10 a torso. Back strap 20 may have a front closure or a back closure, and may be
11 adjustable in length. Back strap 20 is attached to the bottom edges of a pair cups 21
12 and 22 arranged for supporting a pair of breasts. Vertical shoulder straps 23 and 24
13 are connected between the tops of cups 21 and 22 and back strap 20 for strapping
14 around a pair of shoulders.

15

16 Non-stretchable reinforcing rings 25 and 26 are attached to the fronts of cups 21 and
17 22 concentric with nipple areas 27 and 28 thereon, rings 25 and 26 are made of a more
18 rigid material than the cups, and [have open center for comfort] filled with fabric
19 material; no stretchable suspension strips 29 and 30 are connected between respective
20 rings 25 and 26 and shoulder straps 23 and 24. Rings 25 and 26 and strips 29 and 30
21 are fixedly attached to cups 21 and 22, for example, by stitching 31. Alternatively,
22 other means of attachment may be employed. Strips 29 and 30 are preferably integral
23 extensions of shoulder straps 23 and 24, although they may be separate from straps 23
24 and 24 but fixedly connected to them.

25

26 Strips 29 and 30 are sized to suspend rings 25 and 26 [at predetermined positions]
are place about center of breasts.

27 relative to the top ends of cups 21 and 22 to prevent the forward portions of cups 21
28 and 22 from sagging under the weight of large breasts. Rings 25 and 26 maintain the
29 shapes of cups 21 and 22 to prevent them from flattening the breasts when shoulder
30 straps 23 and 24 are tightened.

01 Figs. 3-4:

02 A second embodiment of the present bra is shown in Figs. 3-4. In Fig. 3, it includes a
03 horizontal back strap 40 for positioning around a torso. Back strap 40 may have a
04 front closure or a back closure, and may be adjustable in length. Back strap 40 is
05 attached to the bottom edges of a pair of cups 41 and 42 arranged for supporting a
06 pair of breasts. Slide buckles 43 and 44 are fixedly attached to the tops of cups 41 and
07 42. Vertical shoulder straps 45 and 46 are connected between slide buckles 43 and 44
08 and back strap 40 for strapping around a pair of shoulders.

09 Non-stretchable reinforcing rings 47 and 48 are attached to the front of cups 41 and
10 42 concentric with nipple areas 49 and 50 thereon. Rings 47 and 48 are fixedly
11 attached to cups 41 and 42, for example, by stitching 51. Alternatively, other means of
12 attachment may be employed. Rings 47 and 48 are made of a more rigid material than
13 cups, and [have open centers for comfort,] the open centers are filled with fabric of the
14 cup portion. The lower ends of shoulder straps 45 and 46 are fixedly connected to

15 respective rings 47 and 48, but are not fixedly connected to cups 41 and 42. The tops
16 of cups 41 and 42 are movable along shoulder straps 45 the slide buckles 43 and 44 to
17 adjust the distance between rings 47 and 48 and the tops of cups 41 and 42, and thus
18 control the lifting of cups 41 and 42.

19 In the example shown in Fig. 4, shoulder straps 45 and 46 are shortened between rings
20 47 and 48 and the tops of cups 41 and 42 for lifting the forward portions of cups 41
21 and 42 to prevent the cups from sagging under the weight of large breasts. Rings 47
22 and 48 maintain the shapes of cups 41 and 42 to prevent them from flattening the
23 breasts when shoulder straps 45 and 46 are tightened. Shoulder straps 45 and 46 can
24 also be lengthened between rings 47 and 48 and the tops of cups 41 and 42 for
25 reducing lifting when desired.